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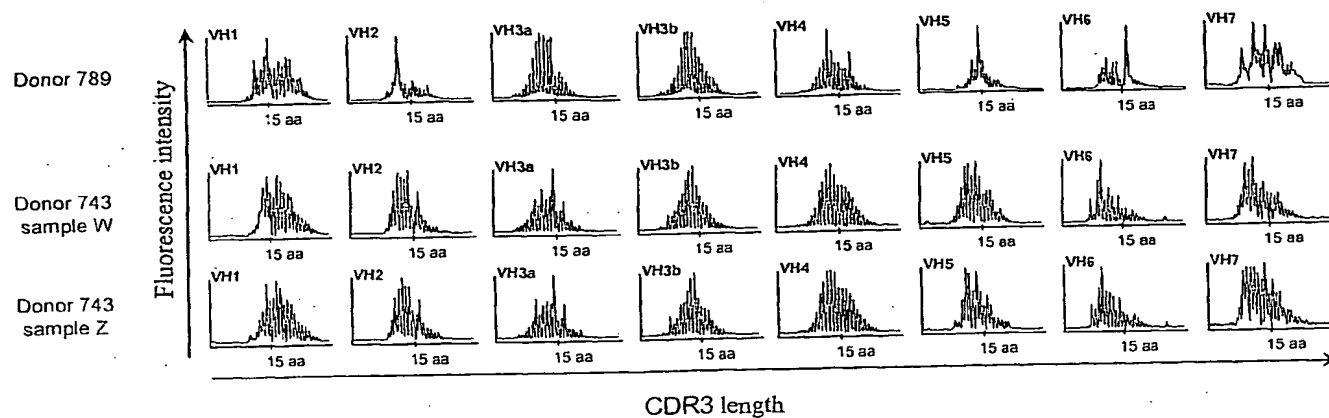


Figure 1A

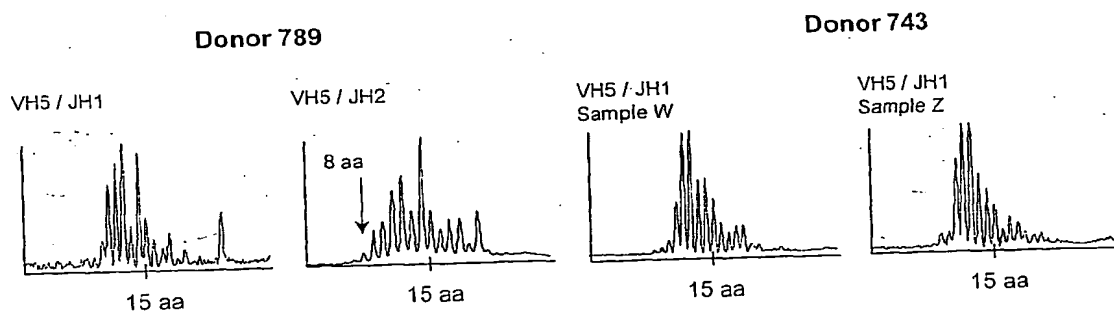


Figure 1B

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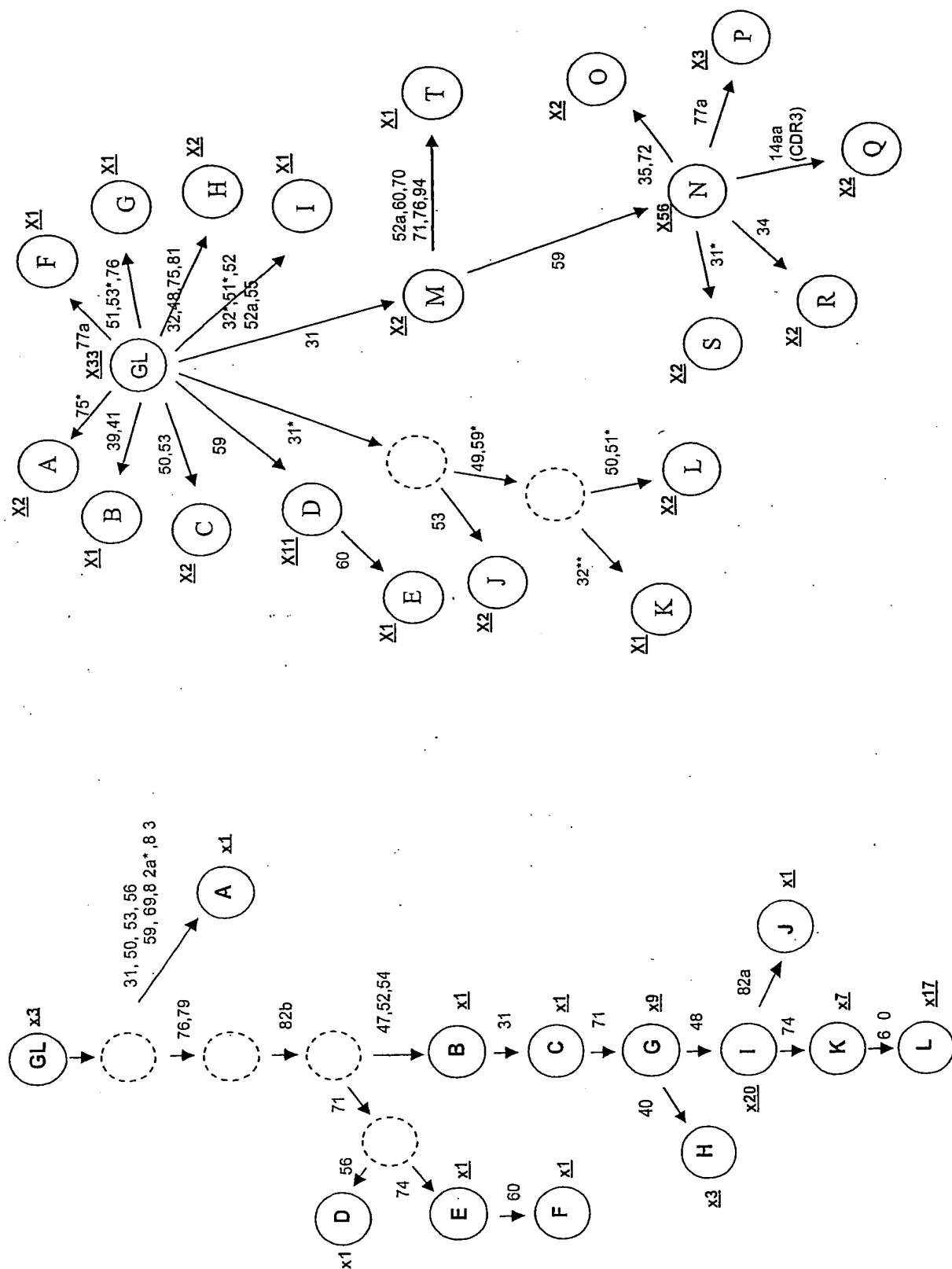


Figure 2B

Figure 2A

Donor 743

Donor 743	tW-tov	tZ-tov	tov	tW+tZ	dW-dov	dZ-dov	dov	dW+dZ
seq. nb	517	488	268	1273	202	199	20	421
%	40,6	38,4	21	100	48	47,3	4,7	100

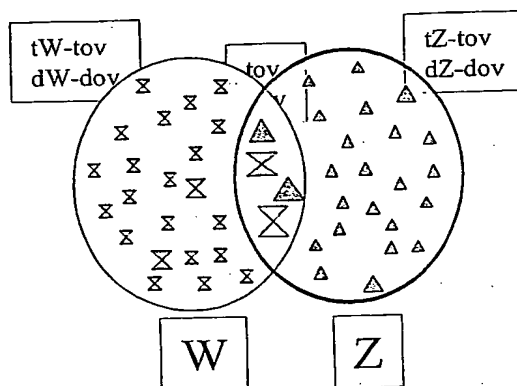


Figure 3A

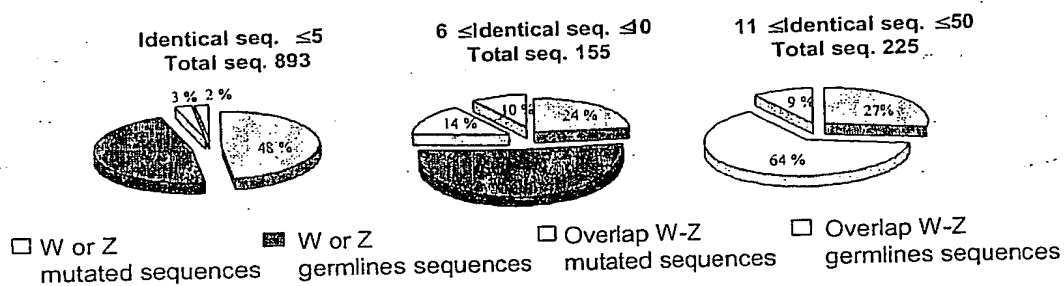
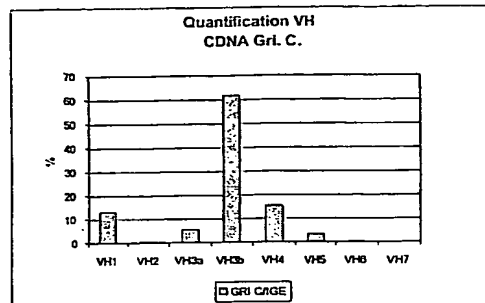
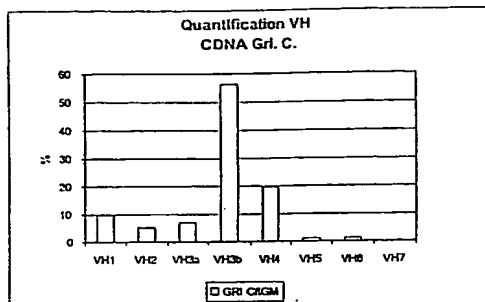


Figure 3B



Cl cDNA3	% VH	GRI C/IGM	%VH
34,3 VH7	0,14	VH1	9,74
31,19 VH6	1,18	VH2	5,11
27,12 VH4	19,75	VH3a	6,88
31,46 VH5	0,97	VH3b	58,24
25,81 VH3b	58,24	VH4	19,75
29,07 VH2	5,11	VH5	0,97
28,84 VH3a	6,88	VH6	1,18
28,14 VH1	9,74	VH7	0,14
3,4722E-08	100,00		

Cl cDNA3	% VH	BS1/IGM	%VH
45 VH7	0,00	VH1	0,78
29,17 VH6	0,32	VH2	1,04
23,38 VH4	17,57	VH3a	5,30
20,88 VH5	0,19	VH3b	74,81
21,29 VH3b	74,81	VH4	17,57
27,46 VH2	1,04	VH5	0,19
25,11 VH3a	5,30	VH6	0,32
27,88 VH1	0,78	VH7	0,00
5,2138E-07	100,00		

Cl cDNA4	% VH	GRI C/IGE	%VH
39,1 VH7	0,28	VH1	13,09
39,19 VH6	0,24	VH2	0,39
33,2 VH4	15,35	VH3a	5,43
35,38 VH5	3,39	VH3b	61,65
31,19 VH3b	61,65	VH4	15,35
38,5 VH2	0,39	VH5	3,39
34,7 VH3a	5,43	VH6	0,24
33,43 VH1	13,09	VH7	0,00
6,6002E-10	100,00		

Cl cDNA4	% VH	BS1 C/IGE	%VH
38,63 VH7	0,09	VH1	7,44
45 VH6	0,001	VH2	1,26
30,8 VH4	18,71	VH3a	2,44
34,85 VH5	1,21	VH3b	68,85
29,02 VH3b	68,85	VH4	18,71
34,79 VH2	1,28	VH5	1,21
33,84 VH3a	2,44	VH6	0,001
32,23 VH1	7,44	VH7	0
2,868E-09	100,00		

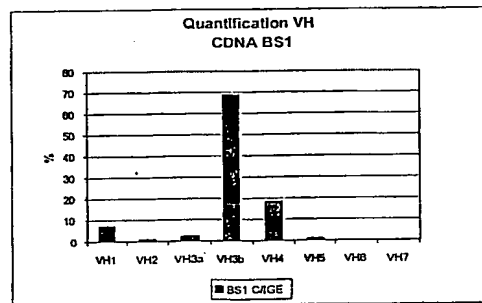
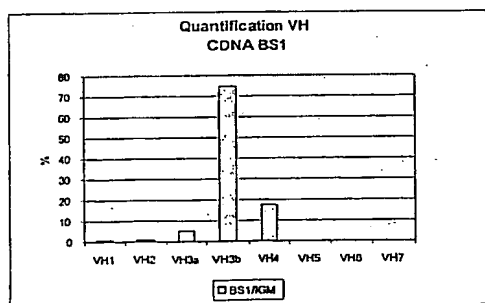
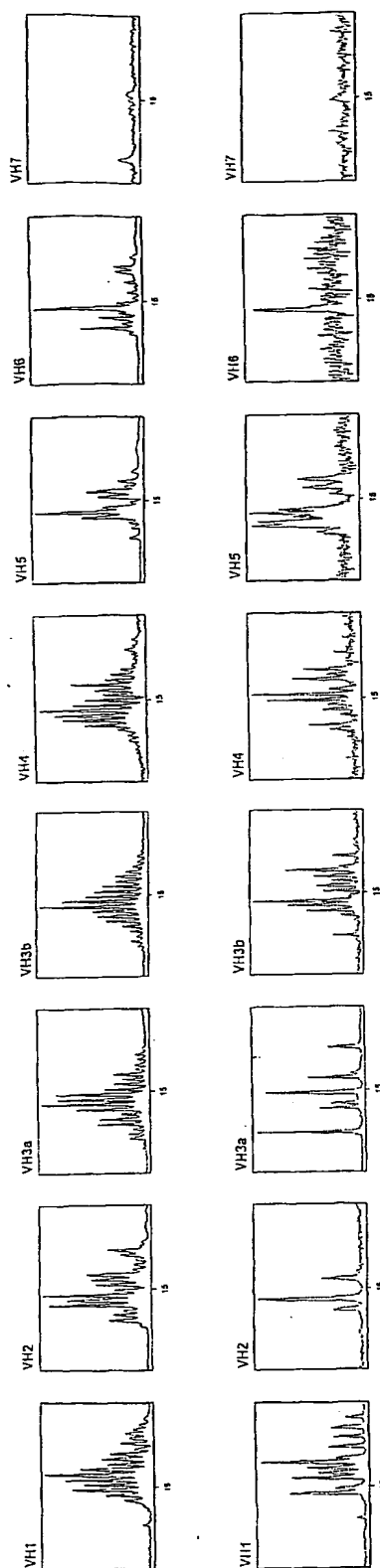


Figure 4

Gri. C.

IgM

IgE



BS1

IgM

IgE

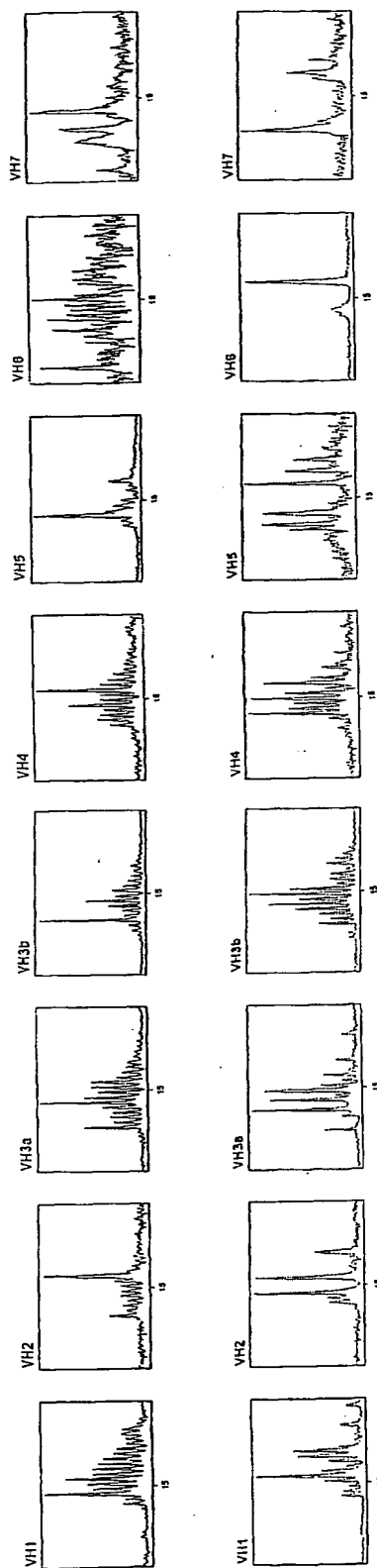


Figure 5

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100

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1
{a112_b10_039} -----a-----C-----tag-g-----g
{a112_g05_018} -----a-----C-----tag-g-----
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{a112_f08_027} -----a-----C-----t-g-g-----
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{a112_e02_004} -----a-----C-----t-g-g-----
{a112_g01_002} -----a-----C-----t-g-g-----
germline IGHG1 -----a-----C-----t-g-g-----

{a112_b02_007} -----t-g-g-----
germline IGHG3 --t-----t-g-g-----

{a112_h07_025} -----
{a112_h01_001} -----
{a112_f03_011} -----
{a112_g06_018} -----
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{a112_d06_021} -----
{a112_b01_007} -----
{a112_h12_041} -----
{a112_g02_002} -----
{a112_a02_008} -----C-----
germline IGHG2 -----C-----

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{a112_c04_014} c-t-----C-----C-----
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{a112_f07_027} --t-----C-----C-----
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germline IGHG4 --t-----C-----C-----

Consensus GCCTCCACCA AGGSCCATC GGTCTTCCCT CTGGGCGCCT GTCCAGGAG CACCTCCGAG AGC ACAGCGG CCCTGGGCTG CCTGSTCAAG GACTACTTCC

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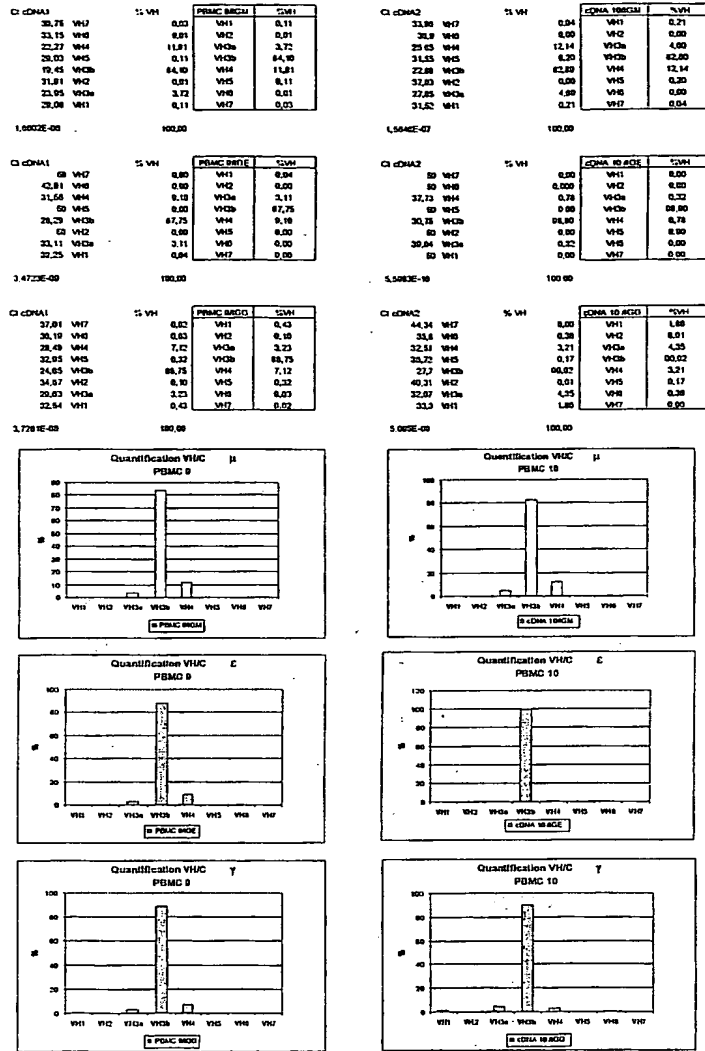


Figure 7

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Cl cDNA1		% VH	cDNA9/IGM	%VH
30.75	VH7	0.03	VH1	0.11
33.15	VH6	0.01	VH2	0.01
22.27	VH4	11.62	VH3a	3.63
29.03	VH5	0.11	VH3b	82.09
19.45	VH3b	82.09	VH4	11.62
31.91	VH2	0.01	VH5	0.11
23.95	VH3a	3.63	VH6	0.01
29.08	VH1	0.11	VH7	0.03
50	VH7	5.2E-08	cDNA9/IGE	%VH
42.91	VH6	7.1E-06	VH1	0.00
31.58	VH4	1.9E-02	VH2	0.00
50	VH5	5.2E-08	VH3a	0.01
28.29	VH3b	1.6E-01	VH3b	0.18
50	VH2	5.2E-08	VH4	0.02
33.11	VH3a	6.3E-03	VH5	0.00
39.25	VH1	9.0E-05	VH6	0.00
37.01	VH7	4.2E-04	cDNA9/IGG	%VH
38.19	VH6	7.5E-04	VH1	0.0
28.49	VH4	1.6E-01	VH2	0.0
32.95	VH5	7.1E-03	VH3a	0.1
24.85	VH3b	1.9E+00	VH3b	1.9
34.67	VH2	2.2E-03	VH4	0.2
29.83	VH3a	7.1E-02	VH5	0.0
32.54	VH1	9.4E-03	VH6	0.0
1.7008E-08		100	VH7	0.0
Cl cDNA 2		% VH	cDNA10/IGM	%VH
33.98	VH7	0.04	VH1	0.20
38.9	VH6	0.00	VH2	0.00
25.65	VH4	11.72	VH3a	4.44
31.55	VH5	0.20	VH3b	70.91
22.88	VH3b	70.91	VH4	11.72
37.03	VH2	0.00	VH5	0.20
27.05	VH3a	4.44	VH6	0.00
31.52	VH1	0.20	VH7	0.04
50	VH7	5.48E-07	cDNA10/IGE	%VH
50	VH6	5.48E-07	VH1	0.00
37.73	VH4	2.71E-03	VH2	0.00
50	VH5	5.48E-07	VH3a	0.00
30.75	VH3b	3.42E-01	VH3b	0.34
50	VH2	5.48E-07	VH4	0.00
39.04	VH3a	1.09E-03	VH5	0.00
50	VH1	5.48E-07	VH6	0.00
44.34	VH7	2.77E-05	cDNA10/IGG	%VH
35.8	VH6	1.18E-02	VH1	0.00
32.51	VH4	1.01E-01	VH2	0.00
36.72	VH5	5.45E-03	VH3a	0.14
27.7	VH3b	2.83E+00	VH3b	2.83
40.31	VH2	4.53E-04	VH4	0.10
32.07	VH3a	1.37E-01	VH5	0.01
33.3	VH1	5.83E-02	VH6	0.01
1.8211E-07		100	VH7	0.00

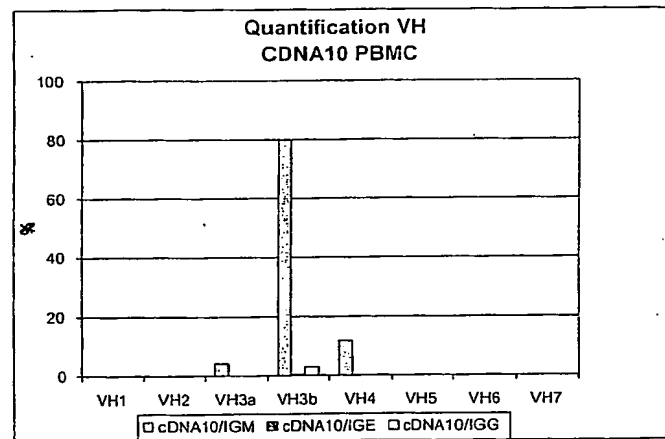
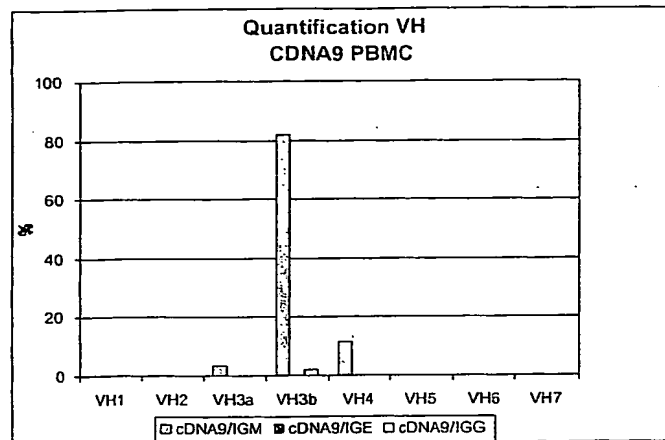


Figure 8

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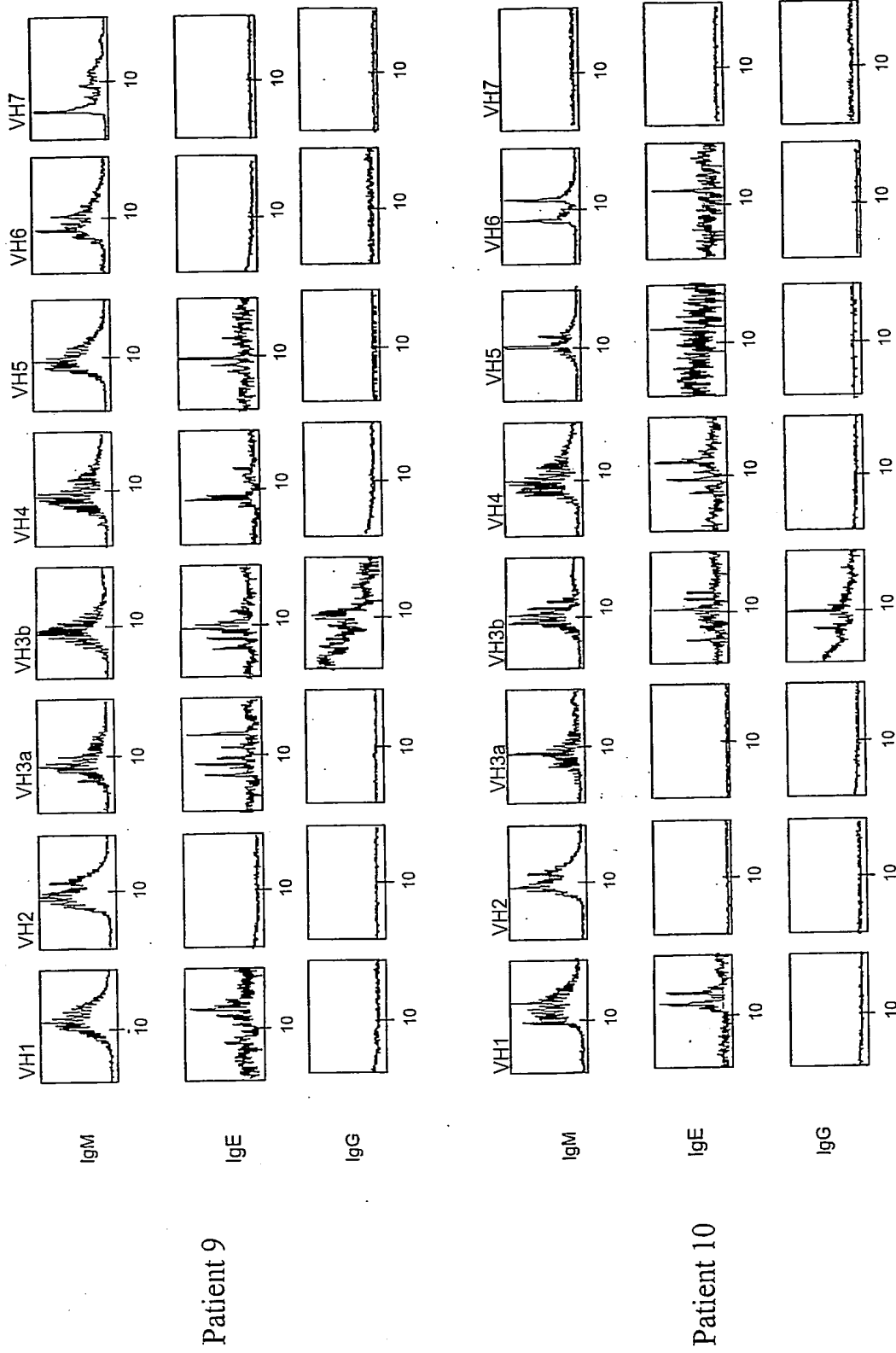


Figure 9

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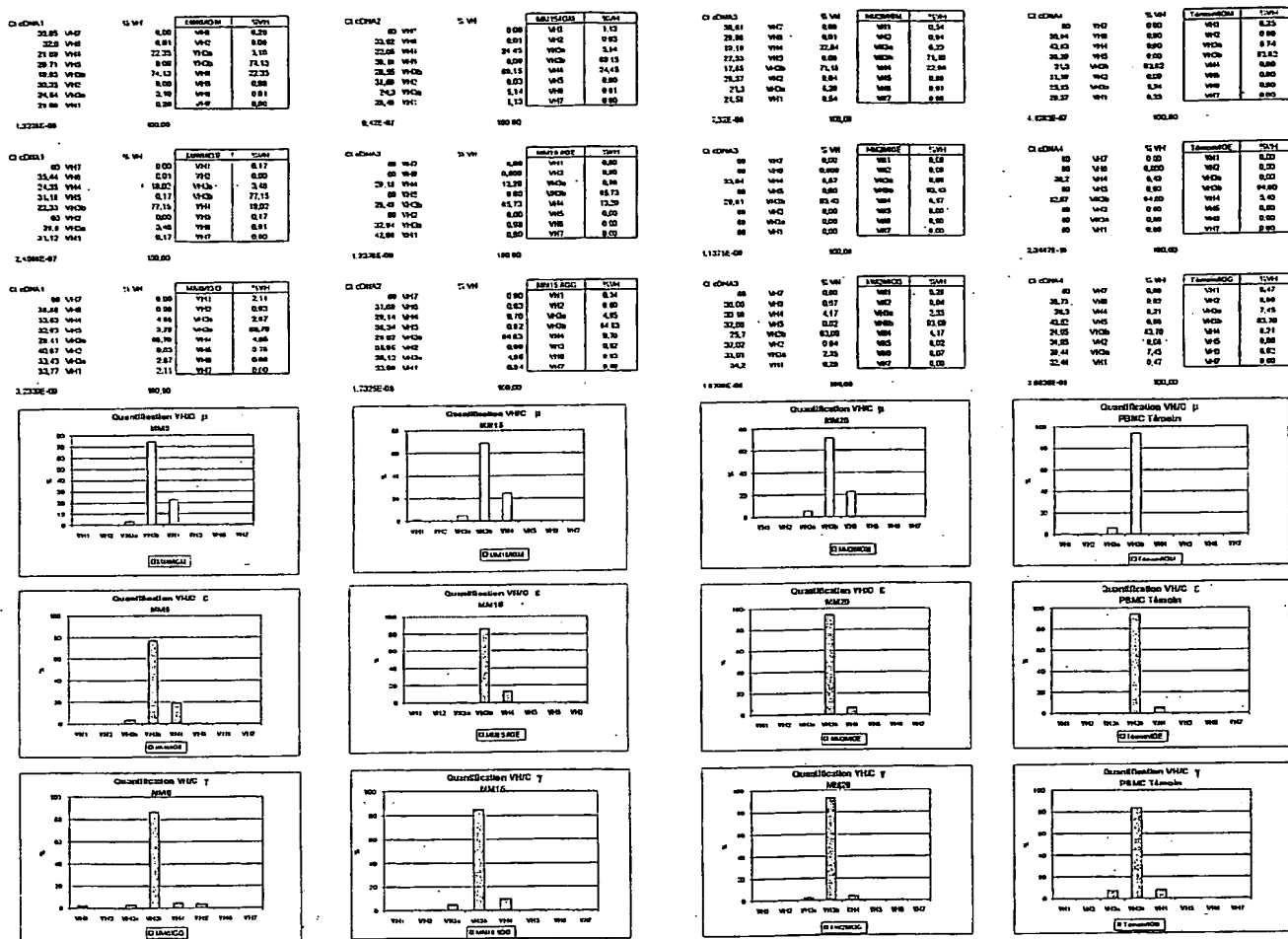


Figure 10

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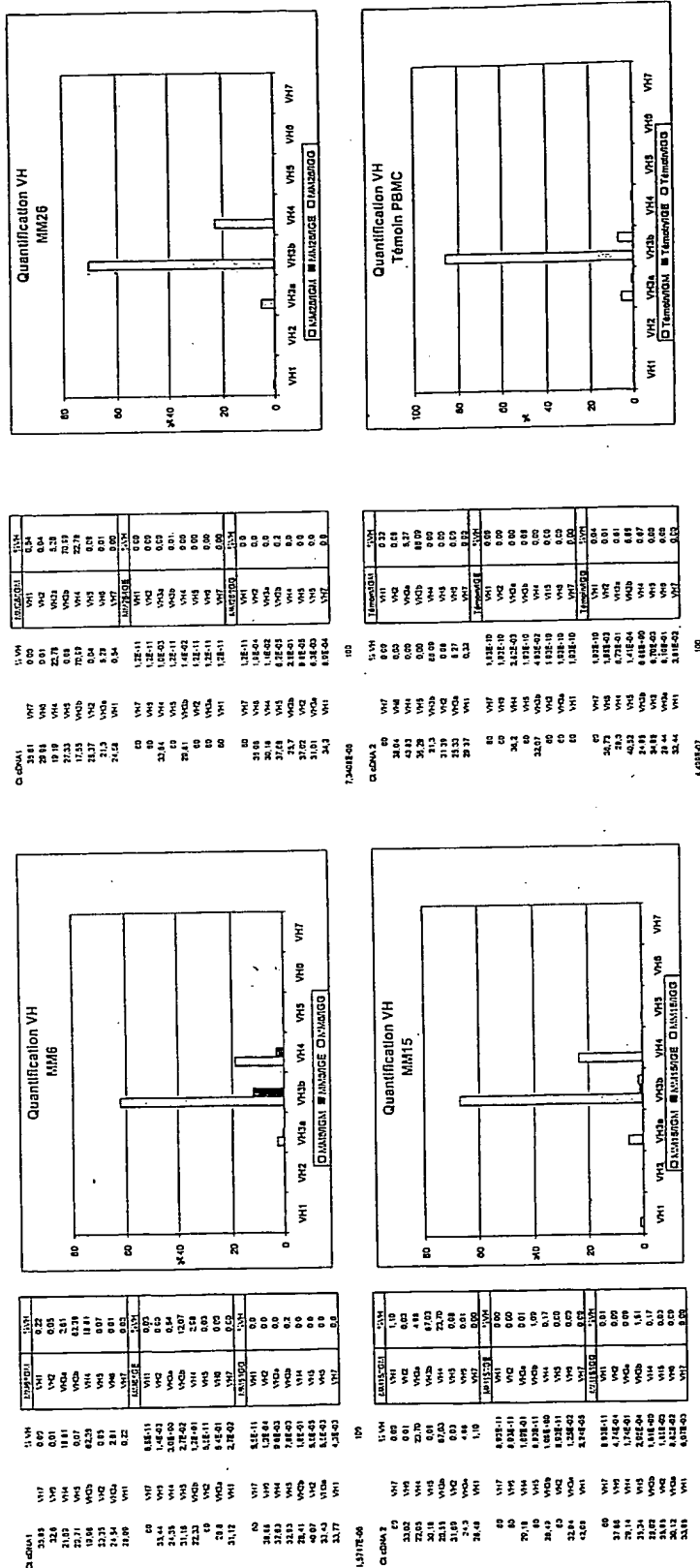


Figure 11

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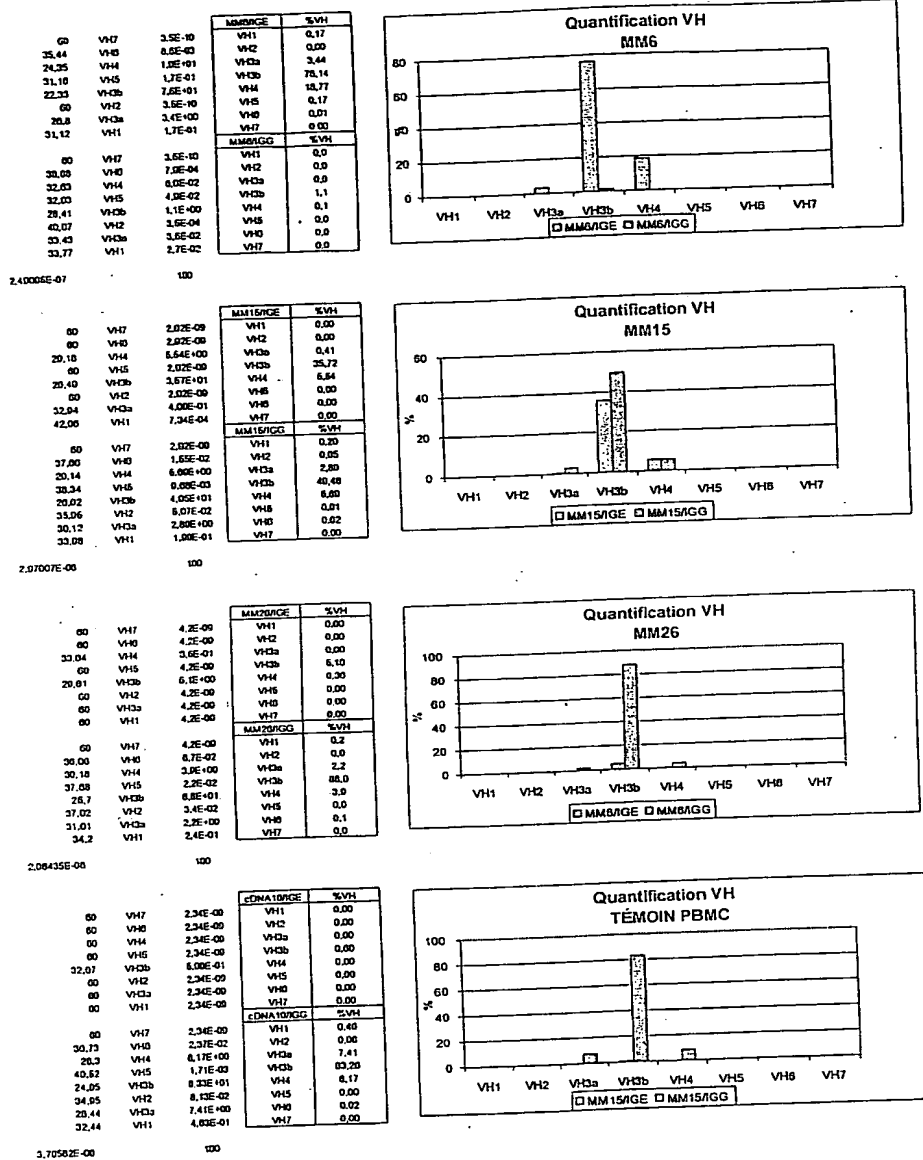


Figure 12

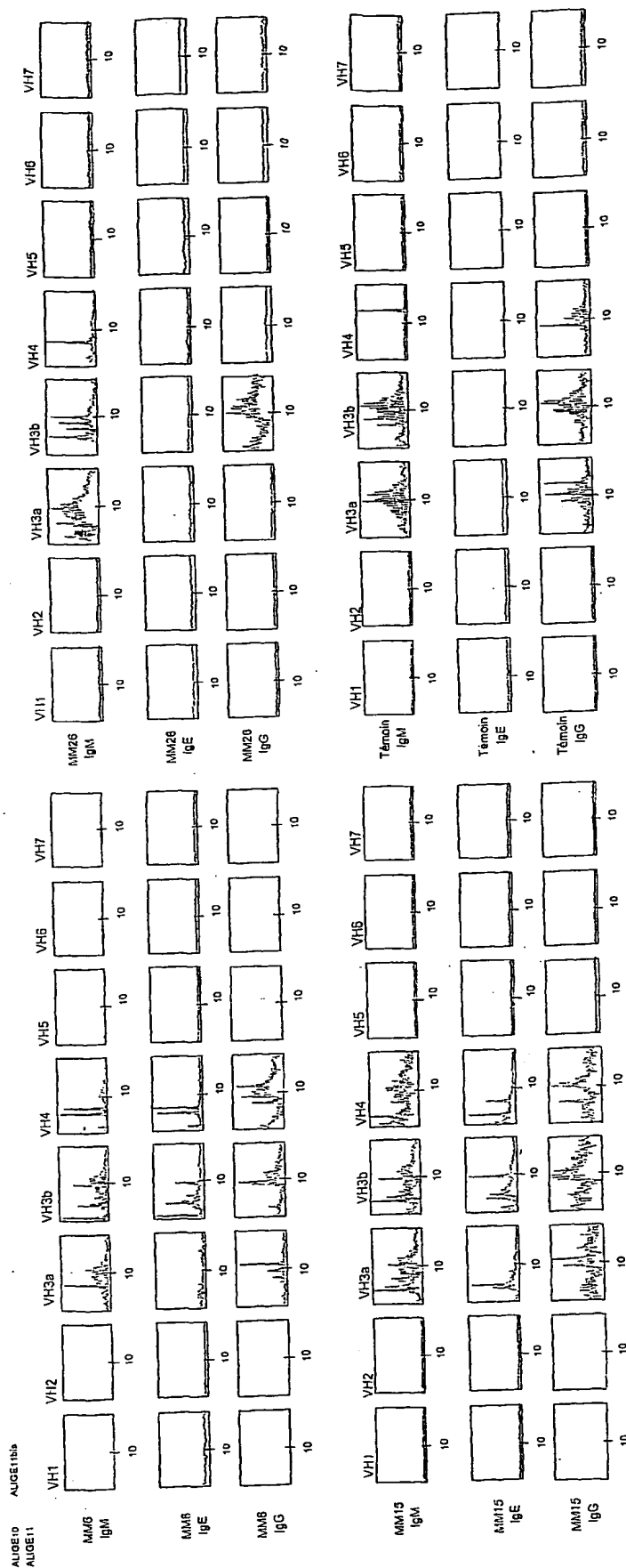


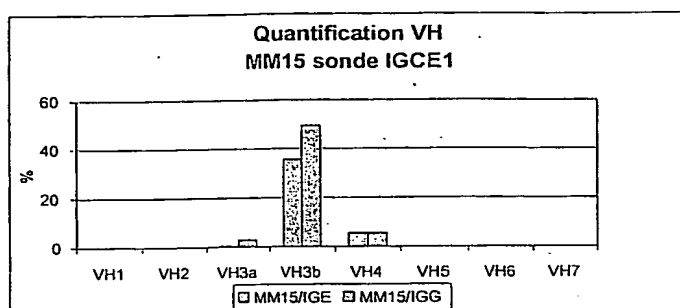
Figure 13

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IGE12

60	VH7	2,9E-09
60	VH6	2,8E-09
29,18	VH4	5,5E+00
60	VH5	2,9E-09
26,49	VH3b	3,6E+01
60	VH2	2,9E-09
32,94	VH3a	4,1E-01
42,06	VH1	7,3E-04
60	VH7	2,9E-09
37,66	VH6	1,6E-02
29,14	VH4	5,7E+00
38,34	VH5	9,7E-03
28,02	VH3b	4,9E+01
35,85	VH2	5,1E-02
30,12	VH3a	2,9E+00
33,98	VH1	2,0E-01

MM15/IGE	%VH
VH1	0,00
VH2	0,00
VH3a	0,41
VH3b	35,72
VH4	5,54
VH5	0,00
VH6	0,00
VH7	0,00
MM15/IGG	%VH
VH1	0,2
VH2	0,1
VH3a	2,9
VH3b	49,5
VH4	5,7
VH5	0,0
VH6	0,0
VH7	0,0



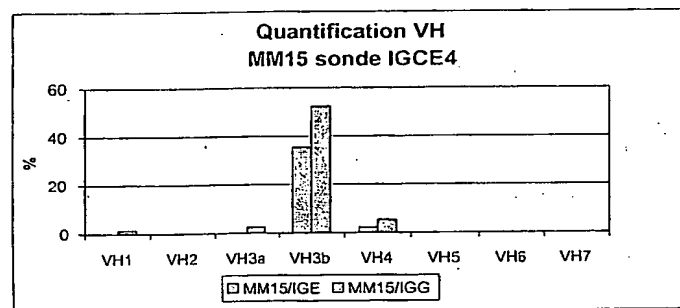
2,97007E-08

100

IGE11

60	VH7	1,61E-09
60	VH6	1,61E-09
29,56	VH4	2,35E+00
40,25	VH5	1,42E-03
25,64	VH3b	3,55E+01
60	VH2	1,61E-09
33,62	VH3a	1,41E-01
35,23	VH1	4,61E-02
60	VH7	1,61E-09
35,22	VH6	4,64E-02
28,35	VH4	5,43E+00
36,9	VH5	1,45E-02
25,08	VH3b	5,24E+01
36,4	VH2	2,05E-02
29,41	VH3a	2,60E+00
30,26	VH1	1,44E+00

MM15/IGE	%VH
VH1	0,05
VH2	0,00
VH3a	0,14
VH3b	35,53
VH4	2,35
VH5	0,00
VH6	0,00
VH7	0,00
MM15/IGG	%VH
VH1	1,44
VH2	0,02
VH3a	2,60
VH3b	52,38
VH4	5,43
VH5	0,01
VH6	0,05
VH7	0,00



5,38302E-08

100

Figure 14